

AMENDMENTS TO THE CLAIMS

Please cancel Claims 10 and 11; amend Claims 1-4, 8 and 9; and, add new Claims 12-17 as follows.

LISTING OF CLAIMS

1. (currently amended) A wiring harness for connecting electrically between in-vehicle units, the wiring harness comprising:

a pitch ribbon cable having a plurality of bridge portions[.]; and

a connector having a plurality of press-contact portions for engaging the pitch ribbon cable,

wherein each bridge portion of the pitch ribbon cable includes a plurality of notches for defining a position of the wiring harness[.].

wherein the pitch ribbon cable further includes a plurality of core wires, which are connected to the press-contact portions, respectively,

wherein one core wire is disposed between two bridge portions, and

wherein one press-contact portion is disposed between two notches so that a part of the bridge portion of each of the notches insulates the one press-contact portion.

2. (currently amended) The wiring harness according to claim 1, ~~further comprising:~~

~~a connector having a press-contact portion for engaging the pitch ribbon cable,~~

wherein the ~~notch includes~~ plurality of notches include a first notch, which

~~is penetrated by the press-contact portion of the connector~~[[.]]

wherein the one press-contact portion includes a groove and a pair of tips,

wherein the groove is disposed between the pair of the tips,

wherein the core wire is disposed in the groove and sandwiched by the pair of the tips so that the core wire is electrically connected to the one press-contact portion, and

wherein one of the tips penetrates the first notch so that the part of the bridge portion of the first notch partitions between adjacent press-contact portions.

3. (currently amended; withdrawn) The wiring harness according to claim [[1]] 2,

wherein the notch includes a second notch, which engages with a first boss of the connector in case of attaching the connector to the pitch ribbon cable so that the second notch works as a positioning reference of the press-contact portion, and

wherein the first notch is disposed at a predetermined distance from the second notch.

4. (currently amended; withdrawn) The wiring harness according to claim 1, wherein the notch includes a [[third]] second notch, which engages with a second boss of the in-vehicle unit in case of assembling the wiring harness to the in-vehicle unit.

5. (withdrawn) The wiring harness according to claim 1,

wherein each neighboring notch disposed in adjacent bridge portions is disposed in alignment with a line perpendicularly to a longitudinal direction of the pitch ribbon cable.

6. (withdrawn) The wiring harness according to claim 1,
wherein each notch disposed in one bridge portion is disposed in a longitudinal direction of the bridge portion at predetermined intervals.

7. (withdrawn) The wiring harness according to claim 1,
wherein the pitch ribbon cable connects to an electric circuit disposed in the connector for driving a control actuator with multiplex communication, the actuator controlling a switching door in a vehicle air-conditioner.

8. (currently amended) The wiring harness according to claim 2,
wherein the first notch is provided by a precut portion ~~for working~~ to work as an insulation wall in such a manner that the precut portion ~~arises in a case where~~ rises when the first notch is pressed into the press-contact portion so that the ~~arisen~~ risen precut portion electrically separates between ~~the press-contact portions~~ the adjacent press-contact portions, and

wherein the precut portion is disposed in a middle of the pitch ribbon cable in a longitudinal direction of the pitch ribbon cable.

9. (currently amended) The wiring harness according to claim 8,

wherein the precut portion has a pair of horseshoe shape, arc shape or C-shape precuts, each back of which faces each other so as to sandwich the adjacent press-contact portion[[]],

wherein the one press-contact portion is electrically insulated by two precuts, one of which is provided by the precut portion of the bridge portion, and the other one of which is provided by another precut portion of a neighboring bridge portion.

10.-11. (cancelled)

12. (new) The wiring harness according to claim 9,
wherein the core wire has a cylindrical shape, and extends in the longitudinal direction of the pitch ribbon cable.

13. (new) A wiring harness for connecting electrically between in-vehicle units, the wiring harness comprising:

a pitch ribbon cable having a plurality of bridge portions; and

a connector having a plurality of press-contact portions for engaging the pitch ribbon cable, wherein

each bridge portion of the pitch ribbon cable includes a plurality of notches for defining a position of the wiring harness,

the pitch ribbon cable further includes a plurality of core wires, each core wire is connected to a respective press-contact portion,

each core wire is disposed adjacent at least one bridge portion, and

each press-contact portion is disposed within at least one notch so that a part of the bridge portion forming the at least one notch insulates an adjacent press-contact portion.

14. (new) The wiring harness according to claim 13, wherein:

the at least one notch includes a first notch,

the respective press-contact portion includes a groove and a pair of tips,

the groove is disposed between the pair of the tips,

the core wire is disposed in the groove and sandwiched by the pair of the tips so that the core wire is electrically connected to the respective press-contact portion, and

one of the tips penetrates the first notch so that the part of the bridge portion forming the first notch partitions between the respective and the adjacent press-contact portions.

15. (new) The wiring harness according to claim 14, wherein

the first notch is provided by a precut portion to work as an insulation wall in such a manner that the precut portion rises when the first notch is pressed into the respective press-contact portion so that the risen precut portion electrically separates between the respective and the adjacent press-contact portions, and

the precut portion is disposed in a middle of the pitch ribbon cable in a longitudinal direction of the pitch ribbon cable.

16. (new) The wiring harness according to claim 15, wherein

the precut portion has a pair of horseshoe shape, arc shape or C-shape precuts, each back of which faces each other so as to sandwich the respective press-contact portion,

wherein the respective press-contact portion is electrically insulated by two precuts, one of which is provided by the precut portion of the bridge portion, and the other one of which is provided by another precut portion of a neighboring bridge portion.

17. (new) The wiring harness according to claim 16,

wherein the core wire has a cylindrical shape, and extends in the longitudinal direction of the pitch ribbon cable.